IN THE CLAIMS

Please substitute the following listing of claims for the previous listing of claims.

- 1. (Currently amended) A substrate support comprising:
 - (a) a support structure; and
- (b) a coating on the support structure, the coating comprising <u>a</u> diamond-like carbon material having a carbon-hydrogen network, and the coating having a contact surface comprising a coefficient of friction of less than about 0.3 and a hardness of at least about 8 GPa, whereby the contact surface of the coating is capable of reducing abrasion and contamination of a substrate that contacts the contact surface.

2-3 (Cancel).

- 4. (Currently amended) A support according to claim [[2]] 1 wherein the diamond-like <u>carbon</u> material comprises a diamond-like nanocomposite having networks of (i) carbon and hydrogen, and (ii) silicon and oxygen.
- 5. (Currently amended) A support according to claim [[2]] 1 wherein the diamond-like <u>carbon</u> material comprises a resistivity of from about 10⁴ Ohm·cm to about 10⁸ Ohm·cm.
- 6. (Currently amended) A support according to claim 5 wherein the <u>carbon</u> diamond-like material comprises from about 0.1 atom % to about 10 atom % of a metal additive, whereby the metal additive changes the resistivity of the coating.

- 7. (Previously pending) A support according to claim 1 wherein the support structure comprises:
 - (a) a dielectric covering an electrode; and
- (b) a plurality of mesas on the dielectric, the mesas comprising the coating with the contact surface thereon.
- 8. (Original) A support according to claim 7 wherein the dielectric comprises a ceramic.
- 9. (Original) A support according to claim 7 further comprising a metal-containing adhesion layer between the dielectric and the coating of the mesas.
- 10. (Original) A support according to 1 wherein the support structure comprises a heat exchanger comprising at least one of (i) a heater, and (ii) conduits for passing a heat exchange fluid therethrough.
 - 11. (Cancel).
 - 12. (Currently amended) A substrate support comprising:
 - (a) a dielectric covering an electrode; and
- (b) a plurality of mesas on the dielectric, the mesas comprising a coating of a diamond-like <u>carbon</u> material over a titanium layer.
- 13. (Original) A support according to claim 12 wherein the coating comprises a coefficient of friction of less than about 0.3 and a hardness of at least about 8 GPa.
- 14. (Original) A support according to claim 12 wherein the coating comprises a thickness of from about 1 to about 20 microns.

- 15. (Original) A support according to claim 14 wherein the titanium layer comprises a thickness of from about 0.25 to about 4 microns.
- 16. (Currently amended) A support according to claim 12 wherein the diamond-like <u>carbon</u> material comprises a diamond-like nanocomposite having networks of (i) carbon and hydrogen, and (ii) silicon and oxygen.
 - 17. (Cancel).
- 18. (Currently amended) A support according to claim 12 wherein the diamond-like <u>carbon</u> material comprises a metal additive.
- 19. (Original) A support according to claim 12 wherein the dielectric comprises AlN or Al₂O₃.
- 20. (Currently amended) A support according to claim 12 wherein the diamond-like <u>carbon</u> material is co-deposited with a metal additive by a process combining physical vapor deposition of the metal additive in a plasma enhanced chemical vapor deposition environment.

21-57. (Cancelled).

- 58. (Currently amended) A substrate support comprising a support structure comprising:
 - (a) a dielectric covering an electrode;
- (b) a plurality of mesas on the dielectric, the mesas comprising a coating comprising a diamond-like carbon material having a carbon-hydrogen network, the coating having a contact surface comprising a coefficient of friction of less than about 0.3 and a hardness of at least about 8 GPa, whereby the contact surface of the coating is capable of reducing abrasion and contamination of a substrate that contacts the contact surface; and
- (c) a metal-containing adhesion layer between the dielectric and the coating of the mesas.

59-60. (Cancel).

- 61. (Currently amended) A support according to claim [[59]] <u>58</u> wherein the diamond-like <u>carbon</u> material comprises a diamond-like nanocomposite having networks of (i) carbon and hydrogen, and (ii) silicon and oxygen.
- 62. (Currently amended) A support according to claim [[59]] <u>58</u> wherein the diamond-like <u>carbon</u> material comprises a resistivity of from about 10⁴ Ohm·cm to about 10⁸ Ohm·cm.
- 63. (Currently amended) A support according to claim 62 wherein the diamond-like <u>carbon</u> material comprises from about 0.1 atom % to about 10 atom % of a metal additive, whereby the metal additive changes the resistivity of the coating.
- 64. (Previously pending) A support according to claim 58 wherein the dielectric comprises a ceramic.

- 65. (Currently amended) A substrate support comprising:
 - (a) a dielectric covering an electrode; and
- (b) a plurality of mesas on the dielectric, the mesas comprising a coating of a diamond-like <u>carbon</u> material over a titanium layer comprising a thickness of from about 0.25 to about 4 microns, the coating comprising a thickness of from about 1 to about 20 microns.
 - 66. (Cancel).
- 67. (Currently amended) A support according to claim 65 wherein the diamond-like <u>carbon</u> material comprises a diamond-like nanocomposite having networks of (i) carbon and hydrogen, and (ii) silicon and oxygen.
- 68. (Previously pending) A support according to claim 65 wherein the coating comprises a coefficient of friction of less than about 0.3 and a hardness of at least about 8 GPa.
- 69. (Previously pending) A support according to claim 65 wherein the dielectric comprises a ceramic.
 - 70. (Currently amended) A substrate support comprising:
 - (a) a dielectric covering an electrode; and
- (b) a plurality of mesas on the dielectric, the mesas comprising a coating of a diamond-like <u>carbon</u> material over a titanium layer, the diamond-like <u>carbon</u> material comprising a diamond-like nanocomposite having networks of (i) carbon and hydrogen, and (ii) silicon and oxygen.

- 71. (Previously pending) A support according to claim 70 wherein the coating comprises a coefficient of friction of less than about 0.3 and a hardness of at least about 8 GPa.
- 72. (Currently amended) A support according to claim 70 wherein the diamond-like <u>carbon</u> material comprises a resistivity of from about 10⁴ Ohm cm to about 10⁸ Ohm cm.
- 73. (Currently amended) A support according to claim 72 wherein the diamond-like <u>carbon</u> material comprises from about 0.1 atom % to about 10 atom % of a metal additive, whereby the metal additive changes the resistivity of the coating.
 - 74. (Currently amended) A substrate support comprising:
 - (a) a dielectric covering an electrode; and
- (b) a plurality of mesas on the dielectric, the mesas comprising a coating of a diamond-like <u>carbon</u> material over a titanium layer, the diamond-like material comprising a metal additive.
- 75. (Previously pending) A support according to claim 74 wherein the coating comprises a coefficient of friction of less than about 0.3 and a hardness of at least about 8 GPa.
- 76. (Previously pending) A support according to claim 74 wherein the coating comprises a thickness of from about 1 to about 20 microns.
- 77. (Currently amended) A support according to claim 74 wherein the diamond-like <u>carbon</u> material comprises a diamond-like nanocomposite having networks of (i) carbon and hydrogen, and (ii) silicon and oxygen.

- 78. (Currently amended) A substrate support comprising:
- (a) a dielectric covering an electrode, the dielectric comprising AIN or Al_2O_3 ; and
- (b) a plurality of mesas on the dielectric, the mesas comprising a coating of a diamond-like <u>carbon</u> material over a titanium layer.
- 79. (Previously pending) A support according to claim 78 wherein the coating comprises a coefficient of friction of less than about 0.3 and a hardness of at least about 8 GPa.
- 80. (Previously pending) A support according to claim 78 wherein the coating comprises a thickness of from about 1 to about 20 microns.
- 81. (Currently amended) A support according to claim 78 wherein the diamond-like <u>carbon</u> material comprises a diamond-like nanocomposite having networks of (i) carbon and hydrogen, and (ii) silicon and oxygen.
 - 82. (Currently amended) A substrate support comprising:
 - (a) a dielectric covering an electrode; and
- (b) a plurality of mesas on the dielectric, the mesas comprising a coating of a diamond-like <u>carbon</u> material over a titanium layer, the diamond-like material being co-deposited with a metal additive by a process combining physical vapor deposition of the metal additive in a plasma enhanced chemical vapor deposition environment.
- 83. (Previously pending) A support according to claim 82 wherein the coating comprises a coefficient of friction of less than about 0.3 and a hardness of at least about 8 GPa.

- 84. (Previously pending) A support according to claim 82 wherein the coating comprises a thickness of from about 1 to about 20 microns.
- 85. (Currently amended) A support according to claim 82 wherein the diamond-like <u>carbon</u> material comprises a diamond-like nanocomposite having networks of (i) carbon and hydrogen, and (ii) silicon and oxygen.